

IN THE CLAIMS

The text of all pending claims, (including withdrawn claims) is set forth below. Cancelled and not entered claims are indicated with claim number and status only. The claims as listed below show added text with underlining and deleted text with ~~strikethrough~~. The status of each claim is indicated with one of (original), (currently amended), (cancelled), (withdrawn), (new), (previously presented), or (not entered).

Please AMEND claims in accordance with the following:

1. (CURRENTLY AMENDED) A name/address translation device comprising:

an identifying unit identifying, when a query about an address corresponding to a name of a communication destination is received from a communication source, ~~a network type of a network to which the communication source belongs and a network type of a network to which the communication destination belongs~~ which of a private network and a global network the communication source and the communication destination belong to each;

a judging unit judging, based on a result of identification by the identifying unit, whether or not to allow to give a response including the address corresponding to the name of the communication destination to the communication source of the query; and

~~a response sending unit giving~~ sending the response to the communication source when the judging unit judges that it is allowable to give the response.

2. (CURRENTLY AMENDED) A name/address translation device according to claim 1, further comprising:

~~a receiving unit receiving, from a communication source, a query about an address corresponding to a name of a communication destination;~~

~~an identifying unit identifying which of a first network and a second network the communication source and the communication destination belong to each;~~

a searching unit searching for an address of the communication destination to be given to the communication source as a response to the query when the identifying unit identifies that the communication source belongs to the ~~first private~~ network and that the communication destination belongs to the ~~second global~~ network; and

~~a wherein the sending unit sending~~ sends the response containing the address of the communication destination to the communication source when the searching unit searches the address of the communication destination, and ~~rejecting~~ rejects the query when the identifying

unit identifies that the communication source belongs to the second global network and the communication destination belongs to the first private network.

3. (CURRENTLY AMENDED) A name/address translation device according to claim 2, wherein the sending unit invalidates sending the response if there is no application of which a use is permitted in a communication between the communication source and the communication destination when the identifying unit identifies that the communication source belongs to the first private network and the communication destination belongs to the second global network.

4. (CURRENTLY AMENDED) A name/address translation device according to claim 2, further comprising:

a notifying unit notifying, when a response containing the address of a second terminal corresponding to the communication destination belonging to the second global network is given to a first terminal corresponding to the communication source belonging to the first private network, a routing device of passage information for letting a data pass through that are forwarded between the first terminal and the second terminal, the routing device receiving the data forwarded between the first private network and the second global network and letting only the data with its passage permitted pass through, and the routing device effecting an address translation between the first private network and the second global network.

5. (CURRENTLY AMENDED) A name/address translation device according to claim 4, wherein the notifying unit notifies the routing device of passage information containing a first network address used in the first private network that is virtually assigned to the second terminal and a second network address that the second terminal uses on the second global network, so that the routing device translates, when a data transmitted from the second terminal passes through, the second network address as a source address included in the data into the first network address, and

wherein the sending unit sends a response containing the first network address so that the first terminal adds, to a data addressed to the second terminal, the first network address as a destination address to a data addressed to the second terminal to transmit the data addressed to the second terminal, and that the routing device translates, when the data addressed to the second terminal passes through, the first network added to the data as the destination address

into the second network address assigned to the second terminal.

6. (PREVIOUSLY PRESENTED) A name/address translation device according to claim 4, wherein the notifying unit notifies the routing device of the passage information further containing information about an application of which the utilization is permitted in the communication between the first terminal and the second terminal in order for the routing device to let only the data pass through which is based on the application of which the utilization is permitted between the first terminal and the second terminal.

7. (PREVIOUSLY PRESENTED) A name/address translation device according to claim 4, wherein the notifying unit notifies, before the sending unit sends the address of the second terminal, the routing device of the passage information.

8. (CURRENTLY AMENDED) A name/address translation method ~~executed by a computer,~~ comprising computer-executed steps of:

identifying, when a query about an address corresponding to a name of a communication destination is received from a communication source, ~~a network type of a network to which the communication source belongs and a network type of a network to which the communication destination belongs~~ which of a private network and a global network the communication source and the communication destination belong to each;

judging, based on a result of identification in the identifying step, whether or not to allow to give a response including the address of the communication destination to the communication source of the query; and

giving/sending the response to the communication source when it is judged in the judging step that it is allowable to give the response.

9. (CURRENTLY AMENDED) A name/address translation method ~~executed by a computer,~~ according to claim 8, further comprising computer-executed steps of:

receiving, from a communication source, a query about an address corresponding to a name of a communication destination;

~~identifying which of a first network and a second network the communication source and the communication destination belong to each;~~

searching for an address of the communication destination to be given to the

communication source as a response to the query when it is identified in the identifying step that the communication source belongs to the first private network and that the communication destination belongs to the second global network; and

wherein the sending in the sending step includes sending the response containing the address of the communication destination to the communication source when it the address of the communication destination is searched in the searching step that the address of the communication destination, and rejecting the query when it is identified in the identifying step that the communication source belongs to the second global network and the communication destination belongs to the first private network.

10. (CURRENTLY AMENDED) A name/address translation method according to claim 9,

wherein the sending in the sending step includes invalidating sending the response if there is no application of which a use is permitted in a communication between the communication source and the communication destination when it is identified in the identifying step that the communication source belongs to the second global network and the communication destination belongs to the first private network.

11. (CURRENTLY AMENDED) A name/address translation method according to claim 9, further comprising computer-executed step of:

notifying, when a response containing the address of a second terminal corresponding to the communication destination belonging to the second global network is given to a first terminal corresponding to the communication source belonging to the first private network, a routing device of passage information for letting a data pass through that are forwarded between the first terminal and the second terminal, the routing device receiving the data forwarded between the first private network and the second global network and letting only the data with its passage permitted pass through, and the routing device effecting an address translation between the first private network and the second global network.

12. (CURRENTLY AMENDED) A name/address translation method according to claim 11,

wherein the notifying in the notifying step includes notifying the routing device of passage information containing a first network address used in the first private network that is virtually

assigned to the second terminal and a second network address that the second terminal uses on the ~~second global~~ network, so that the routing device translates, when a data transmitted from the second terminal passes through, the second network address as a source address included in the data into the first network address, and

wherein the sending in the sending step includes sending a response containing the first network address so that the first terminal adds, to a data addressed to the second terminal, the first network address as a destination address ~~to a data addressed to the second terminal to transmit the data addressed to the second terminal~~, and that the routing device translates, when the data addressed to the second terminal passes through, the first network address added to the data as the destination address into the second network address assigned to the second terminal.

13. (CURRENTLY AMENDED) A name/address translation method according to claim 11, wherein the notifying in the notifying step includes notifying the routing device of the passage information further containing information about an application of which the utilization is permitted in the communication between the first terminal and the second terminal in order for the routing device to let only the data pass through which is based on the application of which the utilization is permitted between the first terminal and the second terminal.

14. (CURRENTLY AMENDED) A name/address translation method according to claim 11, wherein the notifying in the notifying step includes notifying, before ~~sending~~ the address of the second terminal is sent in the sending step, the routing device of the passage information.

15. (CURRENTLY AMENDED) A computer-readable medium ~~recording~~ encoded with a program embodied therein, the program being executed by a computer, the program comprising steps of:

identifying, when a query about an address corresponding to a name of a communication destination is received from a communication source, ~~a network type of a network to which the communication source belongs and a network type of a network to which the communication destination belongs~~ which of a first network and a second network the communication source and the communication destination belong to each;

judging, based on a result of identification in the identifying step, whether or not to allow to give a response including the address corresponding to the name of the communication

destination to the communication source of the query; and

giving-sending the response to the communication source when it is judged in the judging step that it is allowable to give the response.

16. (CURRENTLY AMENDED) A computer-readable medium ~~recording a program embodied therein, the program being executed by a computer according to claim 15, wherein~~ the program further comprising steps step of:

~~receiving, from a communication source, a query about an address corresponding to a name of a communication destination;~~

~~identifying which of a first network and a second network the communication source and the communication destination belong to each;~~

searching for an address of the communication destination to be given to the communication source as a response to the query when it is identified in the identifying step that the communication source belongs to the ~~first private~~ network and that the communication destination belongs to the ~~second global~~ network; and

wherein the sending in the sending step includes sending the response containing the address of the communication destination to the communication source when it is searched in the searching step that the address of the communication destination, and rejecting the query when it is identified in the identifying step that the communication source belongs to the ~~second global~~ network and the communication destination belongs to the ~~first private~~ network.

17. (CURRENTLY AMENDED) The computer-readable medium according to claim 16, wherein the sending in the sending step includes invalidating sending the response if there is no application of which a use is permitted in a communication between the communication source and the communication destination when it is identified in the identifying step that the communication source belongs to the ~~first private~~ network and the communication destination belongs to the ~~second global~~ network.

18. (CURRENTLY AMENDED) The computer-readable medium according to claim 16, wherein the program further comprising step of:

notifying, when a response containing the address of a second terminal corresponding to the communication destination belonging to the ~~second global~~ network is given to a first terminal corresponding to the communication source belonging to the ~~first private~~ network, a routing

device of passage information for letting a data pass through that are forwarded between the first terminal and the second terminal, the routing device receiving the data forwarded between the first private network and the second global network and letting only the data with its passage permitted pass through, and the routing device effecting an address translation between the first private network and the second global network.

19. (CURRENTLY AMENDED) The computer-readable medium according to claim 18, wherein the notifying in the-a notifying step includes notifying the routing device of passage information containing an first network address used in the first private network that is virtually assigned to the second terminal and an second network address that the second terminal uses in the second global network so that the routing device translates, when a data transmitted from the second terminal passes through, the second network address as a source address included in the data into an the first network address, and

wherein the sending in the sending step includes sending a response containing the first network address so that the first terminal adds, to a data addressed to the second terminal, the first network address as a destination address ~~to a data addressed to the second terminal to transmit the data addressed to the second terminal~~, and that the routing device translates, when the data addressed to the second terminal passes through, the first network address added to the data as the destination address into the second network address assigned to the second terminal.

20. (CURRENTLY AMENDED) The computer-readable medium according to claim 18, wherein the notifying in the notifying step includes notifying the routing device of the passage information further containing information about an application of which the utilization is permitted in the communication between the first terminal and the second terminal in order for the routing device to let only the data pass through which is based on the application of which the utilization is permitted between the first terminal and the second terminal.

21. (CURRENTLY AMENDED) The computer-readable medium according to claim 18, wherein the notifying in the notifying step includes notifying, before sending the address of the second terminal in the sending step, the routing device of the passage information.